

**Monday, March 17, 1997**  
**MARS TECTONICS AND GEOPHYSICS**  
**2:30 p.m. Room B**

**Chairs: B. G. Bills**  
**R. A. Schultz**

Dohm J. M.\* Tanaka K. L. Hare T. M.

*Channel Development of the Thaumasia Region of Mars Based on Detailed Mapping and GIS Analysis*

Golombek M. P.\* Franklin B. J. Tanaka K. L. Dohm J. M.

*Extension Through Time Across Thaumasia, Mars*

Anderson R. C.\* Golombek M. P. Franklin B. J. Tanaka K. L. Dohm J. M. Lias J. Higdon J.

*A New Detailed Structural History of the Tharsis Region of Mars*

Schultz R. A.\*

*Dual-Process Genesis for Valles Marineris Basins and Troughs on Mars*

Anderson F. S.\* Grimm R. E.

*Rift Processes at Valles Marineris, Mars: Rate Dependent Strength Evolution Versus Necking*

Tanaka K. L.\*

*Origin of Valles Marineris and Noctis Labyrinthus, Mars, by Structurally Controlled Collapse and Erosion of Crustal Materials*

McGovern P. J.\* Solomon S. C.

*Some Implications of a Basal Detachment Structural Model for Olympus Mons*

Zeitler W.\* Oberst J. Ohlhof T.

*The Global Shape of Mars: Preliminary Results from a Reanalysis of the Viking Mars Control Point Network*

Bills B. G.\* Lemoine F. A. Rowlands D. D. Pavlis D.

*Observational Constraints on the Rotational Dynamics of Mars*

Bertka C. M. Fei Y.

*The Moment of Inertia Factor of Mars: Implications for Geochemical Models of the Martian Interior*